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MISCELLANEOUS.

72. Proposed by DR. E. D. ROE, JR., Associate Professor of Mathematics, Oberlin College, Oberlin, Ohio.

If a , b , and c are integers, and

$$\left\{ \begin{array}{l} b, c-b, c-1 \\ c-a-1 \\ c-a-1 \end{array} \right\} > 0,$$

$$c-a-b-1 \geq 0,$$

prove that the sum of the series,

$$1 + \frac{a.b}{1.c} + \frac{a(a+b).b(b+1)}{1.2.c(c+1)} + \frac{a(a+1)(a+2).b(b+1)(b+2)}{1.2.3c(c+1)(c+2)} + \dots$$

is equal to

$$\frac{(c-1)! (c-a-b-1)!}{(c-a-1)! (c-b-1)!}$$

73. Proposed by CHARLES E. MYERS, Canton, Ohio.

In an ice cream freezer, cream of a homogeneous character and at the uniform temperature of 60° Fahrenheit is put into a cylinder having a closed base, and the whole put into a freezing mixture so as to subject the base and convex surface to a constant temperature of 30° Fahrenheit. Required the temperature at any point within the cream after the expiration of a given time. [From *Higher Mathematics*.]

74. Proposed by S HART WRIGHT, M. D., A. M., Ph. D., Penn Yan, N. Y.

The longest diameter of a horizontal ellipse is $CB=2a=6$ feet. Its shortest diameter is $EF=2b=4$ feet, their intersection being at D . Find in an indefinite vertical plane passing through CB , a point A 5 feet= c from D , the ellipse being seen from A as a circle.

*** Solutions of these problems should be sent to J. M. Colaw, not later than March 10.

EDITORIALS.

Dr. Robert J. Aley, of the University of Indiana, has been elected to membership in the *Deutsche Mathematiker-Vereinigung*, and also in the *London Mathematical Society*.

This issue has been somewhat delayed by the illness of the editor. We shall make strenuous efforts to have all subsequent numbers reach our subscribers by the last of each month.

We are following our previous plan of sending out the January number to each of our old subscribers. Any one wishing to discontinue should return this number with his name and address legibly written on the wrapper.

Contributors should observe the following in sending in contributions :
1. Write only on one side of the paper ; 2. Sign your name and address to each contribution ; 3. In contributing problems or solutions, sign your name to